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AMENDMENTS TO THE CLAIMS

1-21. (Canceled)

22. (Currently Amended) An antenna for multiple bands, characterized in that

one end of an antenna element is electrically connected to a feeding point, said antenna

element extending longitudinally from the feeding point to the other end thereof to obtain

necessary electrical length for antenna operation,

one ends of switches are connected respectively to at least one intermediate point and the

other end of said antenna element, said intermediate point being a point on the longitudinally

extending antenna element,

the other end of one of these switches is connected to a ground conductor directly,

the other ends of others of these switches are connected respectively to said ground

conductor with an extension coil or a short capacitor inserted in series therebetween,

different electrical lengths from said feeding point via said switches closed up to

electrical connections to said ground conductor are set to be capable of resonating different

desired frequency bands respectively, and

resonant frequencies with which different electrical lengths of said antenna element from

said feeding point up to the connections to said switches resonate are set not to come close to one

of said frequency bands with which the electrical length from said feeding point up to the

connection to said ground conductor via any other switch closed resonates.

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23. (Currently Amended) An antenna for multiple bands, characterized in that one end of

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an antenna element is electrically connected to a feeding point said antenna element extending

longitudinally from the feeding point to the other end thereof to obtain necessary electrical length

for antenna operation, one ends of different series resonant circuits, each comprising a capacitor

and a coil, are connected respectively to at least one intermediate point and the other end of said

antenna element said intermediate point being a point on the longitudinally extending antenna

element, the other ends of these series resonant circuits are connected respectively to a ground

conductor with or without an extension coil or a short coil capacitor inserted in series

therebetween, different electrical lengths from said feeding point via said series resonant circuits

up to the connections to said ground conductor are set to be capable of resonating different

desired frequency bands respectively, the resonant frequency of one series resonant circuit is set

equal to one of said frequency bands with which the electrical length from said feeding point up

to the connection to said ground conductor via that series resonant circuit resonates, and resonant

frequencies with which different electrical lengths of said antenna element from said feeding

point up to the connections to said series resonant circuits resonate are set not to come close to

one of said frequency bands with which the electrical length from said feeding point up to the

connection to said ground conductor via any other series resonant circuit resonates.

24. (Currently Amended) An antenna for multiple bands, characterized in that one end of

an antenna element is electrically connected to a feeding point, one ends of different filters are

connected respectively to at least one intermediate point and the other end of said antenna

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element, the other ends of these filters are connected respectively to a ground conductor with or

without an extension coil or a short coil-capacitor inserted in series therebetween, different

electrical lengths from said feeding point via said filters up to the connections to said ground

conductor are set to be capable of resonating different desired frequency bands respectively, each

of said filters allows passage of one of said frequency bands with which the electrical length

from said feeding point via the filter to the connection to said ground conductor resonates and

blocks passage of one of said frequency bands with which the electrical length from the feeding

point via any other filter to the connection to said ground conductor resonates, and resonant

frequencies with which different electrical lengths of said antenna element from said feeding

point up to the connections to said filters resonate are set not to come close to one of said

frequency bands with which the electrical length from said feeding point via any other filter to

the connection to said ground conductor resonates.

25. (Currently Amended) An antenna for multiple bands, characterized in that one end of

an antenna element is electrically connected to a feeding point, one ends of different parallel

resonant circuits, each comprising a capacitor and a coil, are connected respectively to one

intermediate point and the other end of said antenna element, the other ends of these parallel

resonant circuits are connected respectively to a ground conductor with or without an extension

coil or a short eoil-capacitor inserted in series therebetween, different electrical lengths from said

feeding point via said parallel resonant circuits up to the connections to said ground conductor

are set to be capable of resonating different desired frequency bands respectively, the resonant

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frequency of one parallel resonant circuit connected to said one intermediate point is set equal to

one of said frequency bands with which the electrical length from said feeding point via said

other end up to the connection to said ground conductor resonates, the resonant frequency of

another parallel resonant circuit connected to said other end is set equal to another one of said

frequency bands with which the electrical length from said feeding point via said one

intermediate point up to the connection to said ground conductor resonates, and resonant

frequencies with which different electrical lengths of said antenna element from said feeding

point up to the connections to said parallel resonant circuits resonate are set not to come close to

one of said frequency bands with which the electrical length from said feeding point up to the

connection to said ground conductor via any other parallel resonant circuit resonates.

26. (Previously Presented) The antenna for multiple bands according to claim 22,

characterized in that a matching circuit is inserted between said feeding point and the one end of

said antenna element and said electrical lengths including said matching circuit are set.

27. (Previously Presented) The antenna for multiple bands according to claim 22,

characterized in that a capacitor is inserted in series or capacitance is coupled between said

feeding point and an intermediate point with the shortest electrical length from said feeding

point.

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28. (Previously Presented) The antenna for multiple bands according to claim 22,

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characterized in that two parallel conductors disconnected in direct current are inserted in series

so as to be inductively coupled together between said feeding point and an intermediate point

with the shortest electrical length from said feeding point.

29. (Previously Presented) The antenna for multiple bands according to claim 22,

characterized in that said antenna element is formed in a meandering pattern.

30. (Previously Presented) The antenna for multiple bands according to claim 22,

characterized in that said antenna element is formed on the surfaces of a dielectric.

31. (Previously Presented) The antenna for multiple bands according to claim 24,

characterized in that said antenna element and said filters are arranged on a dielectric.

32. (Previously Presented) The antenna for multiple bands according to claim 22,

characterized in that said ground conductor is formed in an approximate rectangle and said

antenna element is formed, bordering on one short side of said rectangle, separated from said

ground conductor.

33. (Previously Presented) The antenna for multiple bands according to claim 22,

characterized in that said ground conductor is formed in an approximate rectangle on a flat

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substrate and said antenna element is formed on said substrate, bordering on one short side of

said rectangular ground conductor, separated from said ground conductor.

34. (Previously Presented) The antenna for multiple bands according to claim 22,

characterized in that said ground conductor is formed in a rectangle, said antenna element is

formed, bordering on one short side of the rectangle, separated from said ground conductor, and

said antenna element is formed in a meandering pattern turned around repeatedly in a direction

parallel to the long sides of said rectangular ground conductor.

35. (Previously Presented) The antenna for multiple bands according to claim 22,

characterized in that said ground conductor is formed in a rectangle, said antenna element is

formed, bordering on one short side of the rectangle, separated from said ground conductor, and

said antenna element is formed in a meandering pattern turned around repeatedly in a direction

parallel to the short sides of said rectangular ground conductor.

36. (Previously Presented) The antenna for multiple bands according to claim 22,

characterized in that said ground conductor is formed in a rectangle, said antenna element is

formed, bordering on one short side of the rectangle, separated from said ground conductor, one

part of said antenna element is formed in a meandering pattern turned around repeatedly in a

direction parallel to the long sides of said rectangular ground conductor, the remaining part of

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said antenna element is formed in a meandering pattern turned around repeatedly in a direction

parallel to the short sides of said rectangular ground conductor.

37. (Previously Presented) The antenna for multiple bands according to claim 22,

characterized in that said ground conductor is formed in a rectangle, said antenna element is

formed, bordering on one short side of the rectangle, separated from said ground conductor, a

half part of said antenna element from its one end which is electrically connected to said feeding

point is formed in a meandering pattern turned around repeatedly in a direction parallel to the

long sides of said rectangular ground conductor, and the remaining half part of said antenna

element up to the other end which is electrically connected to said ground conductor is formed in

a meandering pattern turned around repeatedly in a direction parallel to the short sides of said

rectangular ground conductor.

38. (Currently Amended) The antenna for multiple bands according to claim 22,

characterized in that said antenna element is formed in a meandering pattern along an imaginary

circular cylinder plane and one end, the other end, and an intermediate point of said antenna

element are positioned so that they ean be are connected to and disconnected from said feeding

point and the switches, the series resonant circuits, the parallel resonant circuits, or the filters.

39. (Currently Amended) The antenna for multiple bands according to claim 22,

characterized in that said antenna element is formed in a meandering pattern along an imaginary

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circular cylinder plane and one end, the other end, and an intermediate point of said antenna

element are positioned so that they can-be-are connected to and disconnected from said feeding

point and the switches, the series resonant circuits, the parallel resonant circuits, or the filters,

and, in a casing in which said ground conductor, said feeding point, and the switches, the series

resonant circuits, the parallel resonant circuits, or the filters are housed, said antenna element is

installed in a position so as to protrude outside and to be removable.

40. (Currently Amended) An antenna for multiple bands, characterized in that one end of

an antenna element is electrically connected to a feeding point, one ends of any of a switch, a

series resonant circuit, each comprising a capacitor and a coil, and a filter, which may or may not

be employed, as required, are connected respectively to at least one intermediate point and the

other end of said antenna element, the other ends of these switch, series resonant circuit, and

filter are connected respectively to a ground conductor with or without an extension coil or a

short eoil-capacitor inserted in series therebetween, different electrical lengths from said feeding

point up to the electrical connections to said ground conductor are set to be capable of resonating

different desired frequency bands respectively, the resonant frequency of said series resonant

circuit is set equal to one of said frequency bands with which the electrical length from said

feeding point up to the connection to said ground conductor via the series resonant circuit

resonates, said filter allows passage of one of said frequency bands with which the electrical

length from said feeding point via the filter to the connection to said ground conductor resonates

and blocks passage of one of said frequency bands with which the electrical length from the

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feeding point to the connection to said ground conductor without the intervention of the filter

resonates, and a resonant frequency with which the electrical length of said antenna element

from said feeding point up to the connection to said switch, said series resonant circuit, or said

filter resonates is set not to come close to one of said frequency bands with which the electrical

length from said feeding point to the connection to said ground conductor via said switch, said

series resonant circuit, or said filter resonates at a different frequency from said resonant

frequency.

41. (Currently Amended) An antenna for multiple bands, characterized in that one end of

an antenna element is electrically connected to a feeding point, the other end of said antenna

element is electrically connected directly to the ground conductor, one end of any of a switch, a

series resonant circuit, each comprising a capacitor and a coil, and a filter is connected to at least

one intermediate point of said antenna element, the other end of said switch, said series resonant

circuit, or said filter is connected to said ground conductor with or without an extension coil or a

short eoil-capacitor inserted in series therebetween, different electrical lengths from said feeding

point up to the electrical connections to said ground conductor are set to be capable of resonating

different desired frequency bands respectively, the resonant frequency of said series resonant

circuit is set equal to one of said frequency bands with which the electrical length from said

feeding point up to the connection to said ground conductor via the series resonant circuit

resonates, said filter allows passage of one of said frequency bands with which the electrical

length from said feeding point via the filter to the connection to said ground conductor resonates

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and blocks passage of one of said frequency bands with which the electrical length from the

feeding point to the connection to said ground conductor without the intervention of the filter

resonates, and a resonant frequency with which the electrical length of said antenna element

from said feeding point up to the connection to said switch, said series resonant circuit, or said

filter resonates is set not to come close to one of said frequency bands with which the electrical

length from said feeding point to the connection to said ground conductor via said switch, said

series resonant circuit, or said filter resonates at a different frequency from said resonant

frequency.

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